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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577,224	05/23/2000	Lundy Lewis	APB-018	4214
959	7590	01/04/2005	EXAMINER	
LAHIVE & COCKFIELD, LLP. 28 STATE STREET BOSTON, MA 02109			ENGLAND, DAVID E	
			ART UNIT	PAPER NUMBER
			2143	
DATE MAILED: 01/04/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/577,224

Applicant(s)

LEWIS, LUNDY

Examiner

David E. England

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-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3 - 6 and 23 - 27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3 - 6 and 23 - 27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1, 3 – 6 and 23 – 27 are presented for examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 23, 24, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maccabee et al. (6108700) (hereinafter Maccabee) in view of Roytman et al. (6356282) (hereinafter Roytman).

4. As per claim 1, as closely interpreted by the Examiner, Maccabee teaches a method for managing network services associated with a service level management domain to provide service level management, the method comprising the steps of, (e.g. col. 6, lines 10 – 30 & col. 7, lines 37 – 60):

5. monitoring, by a plurality of monitoring agents, operational characteristics of a network service associated with a service level management domain and supporting one or more business processes under service level management, each monitoring agent detecting events of a select type of the associated operational characteristics from the network service and mapping such

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events into alarms, (e.g. col. 7, lines 37 – 60, “sensors” to also be interpreted as “agents”

“When appropriate, the sensor generates an event that describes the change in state, when the where it has occurred, and any extra data necessary to uniquely identify the event(e.g., an event describing that a file has been opened might include the name of the file as well as the file handle returned by the open activity for use in subsequent file accesses).”);

6. transmitting the alarms from the plurality of monitoring agents to an alarm correlation agent, which analyzes the alarms to produce correlated alarms, (e.g. col. 7, line 61 – col. 8, line 26, “...any additional correlation data useful for later associating the event with other events to form transactions”); but does not specifically teach transmitting the correlated alarms to an enterprise management system to analyze across the network causes of the correlated alarms.

7. Roytman also teaches transmitting the alarms from the plurality of monitoring agents to an alarm correlation agent, which analyzes the alarms to produce correlated alarms, (e.g. col. 5, lines 13 – 55); and

8. transmitting the correlated alarms to an enterprise management system to analyze across the network causes of the correlated alarms, (e.g. col. 2, lines 34 – 51, “maps each managed-object-based alarm to a corresponding node...”). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Roytman with Maccabee because utilizing a function that analyzes information across the network and the causes of the correlated alarms could isolate specific areas that are malfunctioning, (e.g., a down link), and have the network reroute information to other areas that are not affected so to lower latency in the system.

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9. As per claim 24, as closely interpreted by the Examiner, Maccabee teaches the step of determining a state of the business process from the value, (e.g. col. 3, lines 25 – 38).

10. As per claim 26, as closely interpreted by the Examiner, Maccabee teaches the service level management domain comprises, an enterprise network, (e.g. col. 3, lines 25 – 38).

11. Claims 23 and 27 are rejected for similar reasons as stated above.

12. Claims 3 – 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maccabee and Roytman as applied to claim 1, and in further view of Koperda et al. (6230203) (hereinafter Koperda).

13. As per claim 3, as closely interpreted by the Examiner, Maccabee and Roytman teach all that is described above that is similar in scope to claim 1, Roytman further teaches reporting, to a user, information regarding at least one of a group including availability, faults, configuration, integrity, security, reliability, performance and accounting of the measured level of service, (e.g. col. 2, line 18 – col. 3, line 44, “*node status is propagated to application like the Solstice EM Viewer*” & col. 7, line 35 – col. 8, line 34, “*window display 600*”); and

14. the component information representing operational data of one or more monitored components, (e.g. col. 2, line 18 – col. 3, line 44, “*node status is propagated to application like the Solstice EM Viewer*” & col. 7, line 35 – col. 8, line 34, “*window display 600*”), but does not

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specifically teach relating component information to a service upon which a business process depends,

15. determining a state of the business process based upon the component information, wherein the component information determines a measured level of service and wherein the level of service affects the operation of the business process. Koperda teaches relating component information to a service upon which a business process depends, (e.g. col. 1, line 65 – col. 2, line 41, *“quality of play, parameters we considered include access time, delivery duration, bandwidth...”* & col. 4, lines 2 – 64, *“collects and reports statistics for level of service”*),

16. determining a state of the business process based upon the component information, wherein the component information determines a measured level of service and wherein the level of service affects the operation of the business process, (e.g. col. 1, line 65 – col. 2, line 41, *“quality of play, parameters we considered include access time, delivery duration, bandwidth...”* & col. 4, lines 2 – 64, *“collects and reports statistics for level of service”*). It would have been obvious to one skilled in the art at the time the invention was made to combine Koperda with the combine system of Maccabee and Roytman because utilizing a display to view the state of the business process could aid in a more efficient transmission system for when a transmission path is “jammed” and data needs to be redirected to a different path so the data can be delivered to its destination.

17. As per claim 4, Maccabee and Roytman do not specifically teach determining service parameters to measure the level of service. Koperda teaches determining service parameters to measure the level of service, (e.g. col. 1, line 65 – col. 2, line 41 & col. 4, lines 2 – 64, *“collects*

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and reports statistics for level of service”). It would have been obvious to one skilled in the art at the time the invention was made to combine Koperda with the combine system of Maccabee and Roytman because of similar reasons as stated above. Furthermore, measuring the level of service aids in the determination of which alternate path data should use in the case of a congested network.

18. As per claim 5, as closely interpreted by the Examiner, Maccabee and Roytman teach all that is described above that is similar in scope to claim 1, Roytman further teaches representing the component information by one or more component parameters and wherein the component parameters are mapped into the service parameters, (e.g. col. 6, line 40 – col. 7, line 35, “*network alarms, alarm services module*” & col. 7, lines 46 – 65, “*critical, major, warning, minor ...*”).

19. As per claim 6, as closely interpreted by the Examiner, Maccabee and Roytman teach all that is described above that is similar in scope to claim 1, Roytman further teaches determining parameters with predetermined service levels, (e.g. col. 6, line 40 – col. 7, line 35, “*network alarms, alarm services module*” & col. 7, lines 46 – 65, “*critical, major, warning, minor ...*”), but does not specifically teach whether service levels are satisfied by comparing service whether service levels are satisfied by comparing service. Koperda teaches whether service levels are satisfied by comparing service parameters, (e.g. col. 1, line 65 – col. 2, line 41 & col. 4, lines 2 – 64, “*collects and reports statistics for level of service*”). It would have been obvious to one

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skilled in the art at the time the invention was made to combine Koperda with the combine system of Maccabee and Roytman because of similar reasons stated above.

20. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maccabee and Roytman as applied to claim 23, and in further view of Bhoj et al. (6304892) (hereinafter Bhoj).

21. As per claim 25, as closely interpreted by the Examiner, Maccabee and Roytman teach all that is described above that is similar in scope to claim 23, Maccabee further teaches monitoring the service level of the service to monitor the business process, (e.g. col. 2, lines 21 – 25 & col. 3, lines 25 – 38), but neither Maccabee or Roytman specifically teach determining a service level of the service, the service level being defined by a service level agreement. Bhoj teaches determining a service level of the service, the service level being defined by a service level agreement, (e.g. col. 6, line 62 – col. 7, line 7); and

22. monitoring the service level of the service to monitor the business process, (e.g. col. 6, line 62 – col. 7, line 7 & col. 7, lines 39 – 47). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Bhoj with the combine system of Maccabee and Roytman because when two system agree on a specific service level, the service provider could be guaranteeing 100% availability of the backbone of the service provider as well as the customer access circuit ordered by the service provider, making for a high level of service.

Response to Arguments

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23. Applicant's arguments with respect to claims 1, 3 – 6 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

25. a. Goldszmidt et al. U.S. Patent No. 6308216 discloses Service request routing using quality-of-service data and network resource information.

26. b. Robinson et al. U.S. Patent No. 6570867 discloses Routes and paths management.

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27. c. Mangipudi et al. U.S. Patent No. 6728748 discloses Method and apparatus for policy based class of service and adaptive service level management within the context of an internet and intranet.
28. d. Lee et al. U.S. Patent No. 6263358 discloses Scheduler for a software system having means for allocating tasks.
29. e. Taghadoss U.S. Patent No. 6052722 discloses System and method for managing network resources using distributed intelligence and state management.
30. f. Leymann et al. U.S. Patent No. 6633908 discloses Enabling application response measurement.
31. g. Quigley U.S. Patent No. 6583720 discloses Command console for home monitoring system.
32. h. Sharood et al. U.S. Patent No. 645687 discloses Refrigeration monitor unit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. England whose telephone number is 571-272-3912.

The examiner can normally be reached on Mon-Thur, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David E. England
Examiner
Art Unit 2143

De *pe*

William C. Vane
Primary Examiner
Art Unit 2143